

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently amended) A reamer for reaming a bone or a cartilage, or a combination thereof, during surgery, wherein the reamer includes a hollow body of a generally dome shape having a rotational axis, comprising an interior portion and a generally dome-shaped surface,

the generally dome-shaped surface comprising a plurality of raised edges for cutting the bone or the cartilage or the combination thereof, and a plurality of openings for passing of fragments of the bone or the cartilage or the combination thereof into the interior portion of the reamer, the generally dome-shaped surface forming having a first portion and at least one second portion,

the first portion dimensioned substantially as a surface of rotation about the rotational axis, and

the at least one second portion forming at least one side of the generally dome-shaped surface, not forming a surface of rotation about the rotational axis, ~~and~~ located generally more closely to the rotational axis than the first portion, ~~the second portion thereby reducing and reducing~~ a dimension of the ~~dome~~ generally dome-shaped surface in at least one dimension transverse to the rotational axis of the generally dome shape.

2. (Original) The reamer of Claim 1, wherein the second portion forms substantially a plane.

3. (Original) The reamer of Claim 1, wherein the second portion is oriented in a plane parallel to the rotational axis.

4. (Original) The reamer of Claim 2, including two second portions.

5. (Original) The reamer of Claim 4, wherein the two second portions are located in planes substantially parallel to one another.
6. (Original) The reamer of Claim 1, wherein the raised edges are confined to the first portion.
7. (Original) The reamer of Claim 4, wherein the raised edges are confined to the first portion.
8. (Original) The reamer of Claim 1, wherein the surgery is a hip replacement arthroplasty and the bone and the cartilage are the acetabulum of an animal or a human.
9. (Currently amended) A reamer for reaming a bone or a cartilage, or a combination thereof, during surgery, wherein the reamer is a hollow body of a general dome shape having a rotational axis, comprising an interior portion and a generally dome-shaped surface ~~comprising~~ having a first portion and at least one second portion,

wherein the first portion of the generally dome-shaped surface comprises a plurality of raised edges for cutting the bone or the cartilage or the combination thereof, and a plurality of openings for passing of fragments of the bone or the cartilage or the combination thereof into the interior portion of the reamer,

wherein the raised edges are confined to ~~one or more sectors of the surface~~ an area of the ~~middle first portion of the reamer, the sectors~~ occupying substantially less than half of an area of the generally dome-shaped surface of the reamer, and

wherein the at least one second portion forms at least one side of the generally dome-shaped surface of the reamer and has no cutting edges.
10. (Currently amended) The reamer of Claim 9, wherein the raised edges are confined to a band straddling a middle portion of the ~~dome-shape~~ dome-shaped surface of the reamer.

11. (Currently amended) The reamer of Claim 10, wherein the ~~surface includes a~~ first portion ~~which~~ is dimensioned substantially as a surface of rotation about the rotational axis, and the at least one second portion, ~~the second portion~~ is not forming a surface of rotation about the rotational axis and is located generally more closely to the rotational axis than the first portion, the second portion ~~thereby~~ reducing a dimension of the ~~dome~~ dome-shaped surface of the reamer in at least one dimension transverse to the rotational axis of the generally dome shape.

12. (Original) The reamer of Claim 10, wherein the surgery is a hip replacement arthroplasty and the bone and the cartilage are in the acetabulum of an animal or a human.

13 – 24. (Cancelled)